

# NAVAL HEALTH RESEARCH CENTER

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## ***MARINE CORPS NBC WARFARE: DETERMINING CLINICAL SUPPLY REQUIREMENTS FOR TREATMENT OF BATTLEFIELD CASUALTIES FROM CHEMICAL AND BIOLOGICAL WARFARE***

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# **Marine Corps NBC Warfare:**

## **Determining Clinical Supply Requirements for Treatment of Battlefield Casualties From Chemical and Biological Warfare**



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## SUMMARY

### **Problem**

Countering the growing threat posed by the possible use of biological and chemical agents by terrorists or renegade nations requires the U.S. Marine Corps be prepared to fight in a “dirty” battlefield. However, doing so increases the risk some Marine personnel will be injured by these weapons of mass destruction. Navy/Marine Corps medical personnel must be prepared to treat victims of biochemical agents on the battlefield.

### **Objective**

The objective of this study was to review and update the Authorized Medical Allowance Lists (AMALs) for Nuclear, Biological, and Chemical (NBC) warfare—AMAL 687 (NBC Individual Kit) and AMAL 688 (NBC Unit AMAL)—which had not been reviewed since the early 1990s. (M. J. Reading, CDR, USN, personal communication, 18 September 02.) The study focused on treatments for biological infections and chemical injuries.

### **Approach**

Treatment profiles were created for 42 biochemical patient types using the Joint Readiness Clinical Advisory Board treatment briefs as a guide. Those treatment profiles were then assigned medical supplies, establishing the clinical requirements for the proposed AMALs 687 and 688 updates. In November 2002, a panel of 30 subject matter experts was convened to review and validate the recommended changes.

### **Results and Discussion**

As a result of this review, three new items were added to the NBC Individual Kit, and one item deleted. Four items were removed from the existing NBC Unit AMAL and 17 new items were added. Included among items added to both AMALs were new antibiotics to combat the threat of bacterial-based biological agents, such as anthrax and plague. These and the other items added to AMAL 687 and AMAL 688 will enhance the capability of the Navy and Marine Corps to treat battlefield victims of biochemical warfare.

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## **Marine Corps NBC Warfare:**

# **Determining Clinical Supply Requirements for Treatment of Battlefield Casualties From Chemical and Biological Warfare**

### **INTRODUCTION**

With the end of the Cold War, the nuclear and conventional standoff between the Superpowers has given way to new threats from renegade nations and terrorist organizations. There is growing evidence that the weapons of choice of these groups are weapons of mass destruction, particularly chemical and biological agents.<sup>1-3</sup>

The use of biological and chemical weapons is nearly as old as warfare itself. The Spartans won a victory in 423 B.C. by sending acrid smoke into an Athenian-held fort during the Peloponnesian War. Biological warfare dates back to the sixth century B.C. when poisonous plants were used to contaminate enemy water wells. The Tartar army used smallpox as a weapon during its siege of Caffa (present day Feodosia in Crimea) in 1346. Modern chemical warfare was born 15 April 1915 when Germany launched the first such attack in World War I on the battlefield of Ypres. The Allies soon followed suit.<sup>1</sup>

Though the use of chemical weapons was avoided during World War II, there was evidence of chemical agents use by Egypt in the Yemen War (1963-1967), by the Cambodian and Laotian governments in the late 1970s and early 1980s, and by the Soviet Union during its occupation of Afghanistan (1979-1989). Iraq launched numerous chemical attacks against Iran in the 1980s, and Iran retaliated in kind. Iraq is also known to have used chemical weapons against its Kurdish citizens in the late 1980s. Large caches of Iraqi chemical weapons were discovered and destroyed by coalition troops following Operation Desert Storm. In addition, more than two dozen other countries are believed to have the ability to produce and stockpile chemical weapons.<sup>1,3</sup>

Recent use of biological weapons includes the suspected use of trichothecene mycotoxins by the Japanese against the Chinese in the early 1940s. After the first Gulf War, Iraq was found to have weaponized anthrax, botulinum toxins and *Clostridium perfringens* toxins, which it deployed in several bombs, rockets, and missiles. Fortunately, none were used. In 1997, the U.S. government identified Iraq, Libya, Iran, and Syria as countries “aggressively seeking” biological weapons as well as chemical and nuclear/radiological weapons.<sup>2,3</sup>

In recent years, chemical and biological weapons have found their way into the hands of terrorist groups. A Japanese radical group, Aum Supreme Truth, twice used sarin (designated nerve agent GB by the military) in attacks against civilian targets. A 1994 attack in the Japanese city of Matsumoto left more than 200 casualties, including 7 dead. A year later, an attack against the Tokyo subway resulted in 5,510 victims, including 12 deaths. Cyanide was used in the 1993 bombing of the World Trade Center in New York by Islamic radicals, but the poison-laden portion of the bomb failed to function. The 11 September 2001 attacks on the World Trade Center and the Pentagon were followed by a terrorist campaign involving letters and packages containing anthrax spores sent to public officials and members of the media, resulting in 5 deaths. Responsibility for those attacks has not been determined.<sup>3,4</sup>

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In light of the growing threat from biochemical agents, researchers at the Naval Health Research Center (NHRC), in conjunction with the Marine Corps Systems Command (MARCOR-SYSCOM), began a review of the Authorized Medical Allowance Lists (AMALs) for nuclear, biological, and chemical (NBC) warfare. Two AMALs were examined in this review: AMAL 687, the NBC Individual Kit issued to each Marine for self/buddy aid; and AMAL 688, the medication, equipment, and supply package used at the unit level. Neither AMAL had been reviewed nor updated for nearly 10 years. Both were configured primarily for initial and follow-on treatment of nerve agent casualties. (M. J. Reading, CDR, USN, personal communication, 18 September 02.) The study focused on medications and supplies needed to treat injuries or infections from chemical or biological agents.

## METHODS

A four-step process for identifying Marine Corps clinical requirements for biochemical medical supplies was selected as the methodology for the current study. The methodology started with the identification of the patient-type categories that could occur in a biological or chemical attack. The Joint Readiness Clinical Advisory Board (JRCAB) 42 biochemical patient conditions (PCs) listed in Appendix A were used for this purpose.

The JRCAB patient conditions provide a guide for treating various injuries and illnesses encountered in a military or combat environment. Task profiles were created for each of the JRCAB 42 biochemical PCs. Each task profile described the step-by-step sequence of clinical tasks to be performed for each PC at the three levels of Marine Corps battlefield medical care, including First Responder (Level 1A), Battalion Aid Station (Level 1B), and Surgical Company (Level 2). Once the task profiles were completed, the medical supplies needed to perform the tasks were assigned. These task-supply relationships established the clinical requirement for each medical item in the proposed AMAL 687 and AMAL 688. Finally, a patient stream was created and run against the supply set to yield the final quantities for each proposed AMAL. Although the NBC Unit AMAL (688) is issued only to Level 2 facilities, biochemical task and supply profiles were created for Level 1A and 1B as well to show the logistical depth to which the AMALs supplies will actually be needed on the battlefield (see Appendices B, C, and D).

## RESULTS

In November 2002, a panel of subject matter experts (SMEs) was convened to review the proposed AMALs. Nearly 30 Navy and Marine Corps personnel participated in the study. These SMEs were drawn from the 14 Navy/Marine Corps commands listed in Table 1. The specialties within the group consisted of physicians, epidemiologists, entomologists, environmental health officers, preventive medicine technicians, senior hospital corpsmen, logisticians, and civilian analysts.

**Table 1: Subject Matter Expert Command Representation**

• 1ST MEDICAL BATTALION CAMP PENDLETON, CA	• 1ST MARINE DIVISION CAMP PENDLETON, CA
• 2ND MEDICAL BATTALION CAMP LEJEUNE, NC	• 2ND MARINE DIVISION CAMP LEJEUNE, NC
• 1ST FORCE SERVICE SUPPORT GROUP CAMP PENDLETON, CA	• 3RD MARINE DIVISION OKINAWA, JAPAN

• 2ND FORCE SERVICE SUPPORT GROUP CAMP LEJEUNE, NC	• MARINE CORPS COMBAT DEVELOPMENT COMMAND, QUANTICO, VA
• MARINE CORPS SYSTEMS COMMAND QUANTICO, VA	• 1ST MEDICAL LOGISTICS COMMAND CAMP PENDLETON, CA
• NAVY ENVIRONMENTAL PREV. MEDICAL UNIT-5 SAN DIEGO, CA	• 2ND MEDICAL LOGISTICS COMMAND CAMP LEJEUNE, NC
• NAVAL HOSPITAL CAMP PENDLETON CAMP PENDLETON, CA	• MARFORLANT NORFOLK, VA

**AMAL 687:** The primary purpose of the SME panel was to validate the data identified by the methodology and to ensure they reflected current Marine Corps medical doctrine. Three new items were added to AMAL 687, the NBC Individual Kit, and one current item removed. These included two antibiotics—ciprofloxacin and doxycycline hyclate—to provide an immediate medication capability in the event of an attack with a bacterial agent such as anthrax. Also added was potassium iodine tablets for radiological exposure. Table 2 lists the final AMAL 687 items.

**AMAL 688:** Four existing items in AMAL 688 were removed, and 17 new items added. The modifications reflected the change in battlefield threats and included new antibiotics and a cyanide antidote kit not previously included in the NBC Unit AMAL. Table 3 lists the final AMAL 688 items. Under SME advice, no vaccines were added to AMAL 688, keeping with Marine Corps doctrine regarding medical supply blocks. Two available botulism antitoxins—the Centers for Disease Control and Prevention (CDC) trivalent equine antitoxin for serotypes A, B, and E, and the Department of Defense (DoD) heptavalent equine desprecipated antitoxin for serotypes A-G—were not included. Both the CDC antitoxin and the investigational DoD toxin are available only by special request, which must go through the chain of command to the Secretary of Defense who then relays the request to the commissioner of the Food and Drug Administration and the President of the United States for a decision.<sup>5</sup>

**Table 2: Proposed NBC Individual Kit\* Items (AMAL 687)**

NSN	Nomenclature
6505009269083	ATROPINE INJECTION AQUEOUS TYPE 0.7ML SYRINGE WITH NEEDLE (Note: Part of MK 1)
6505011253248	PRALIDOXIME CHLORIDE FOR INJ 300MG/ML 2ML AUTO INJECTOR (Note: Part of MK 1)
6505011787903	PYRIDOSTIGMINE BROMIDE TABLETS USP 30MG 21S
6505012740951	DIAZEPAM INJECTION USP 5MG/ML 2ML SYRINGE-NEEDLE UNIT
6505014916143	CIPROFLOXACIN 500MG TABLETS BLISTER PACK 10S (BID, 5 DAYS)
6505014915504	DOXYCYCLINE HYCLATE TABS USP 100MG 10S (BID, 5 DAYS)
6505014964916	POTASSIUM IODINE TABS 130MG 14S

\*Kit is used for self/buddy aid.

**Table 3. Proposed NBC Unit AMAL 688 Items**

NSN	Nomenclature
6505011169245	ALBUTEROL INHALATION AEROSOL 17GM CONTAINER 200 SPRAYS
6505009578089	ATROPINE SULFATE INJECTION USP 1ML VIAL 25 VIALS PER PACKAGE
6505005824735	ATROPINE SULFATE OPHTHALMIC SOLUTION USP 1% 15ML
6505007540280	CHLORAMPHENICOL SODIUM SUCCINATE 1GM VIAL 10S (10ml syringe req'd)
6505014916143	CIPROFLOXACIN 500MG TABLETS BLISTER PACK 10S (BID, 5 DAYS)
6505013366179	CIPROFLOXACIN INJ D5W 2MG/ML 200ML BAG 24S
6505011875540	CLINDAMYCIN PHOSPHATE IV 6ML VI 25S (10ml syringe req'd)
6505014658720	DIAZEPAM INJECTION 5MG/ML 2ML CARTRIDGE-NDL UNIT (Note: CANA) 10S
6505000095063	DOXYCYCLINE HYCLATE CAPSULES USP 100MG 500S
6505011084828	DOXYCYCLINE HYCLATE FOR INJECTION USP 100MG BT 5S
6505012560710	GENTAMICIN INJ 40MG/ML 20ML MULTI DOSE VI 10S

6505013448487	INJECTOR TUBE PLAS ACCOM 1ML MEDICATION CARTRIDGE UNIT (Req'd for Diazepam)
6505014667522	PHYSOSTIGMINE SALICYLATE INJECTION USP 1MG/ML 2ML 10 AMPULES/PG
6505010801986	PRALIDOXINE CHLORIDE STERILE 1 GM 6S (10ml syringe req'd)
6505013162804	RIFAMPIN 600MG 25 ML VI 1S (20ml syringe req'd)
6505011434641	SODIUM NITRITE/SODIUM THIO-SULFATE CYANIDE TREATMENT KIT
6515014587025	SYRINGE & NEEDLE HYPO 10ML 21GA 100S
6515014520465	SYRINGE AND NEEDLE HYPO SAFETY 3ML 23 GA STER DISP 100S
6530014551653	VENTILATOR VOLUME PTBL 8.870X11.5 UNI-VENT 120/220V AC
6515013750513	FILTER HEAT & MOISTURE EXCHANGE ANES/VENT 50S
6515012796450	MONITOR OXYGEN BATTERY 6.75x3.50IN ALARMED
6515014661195	CIRCUIT VENTILATOR VINYL DISP 6FT LG 15S

## PROJECTING MEDICAL SUPPLY QUANTITIES

### AMAL 687

Quantity projections for the NBC Individual Kit was based on the population at risk (PAR) in a full Marine Expeditionary Force (MEF). The entire MEF 40,000-person complement was considered at risk since chemical and biological delivery systems can attack rear forces as well as those at the combat front, requiring every member to be issued a kit. Therefore, the quantities identified for each Individual Kit was multiplied by 40,000 (Table 4).

**Table 4: Proposed NBC Individual Kit Quantities for a MEF**

NSN	NOMENCLATURE	Initial Qty Per Person	UI	New QTY	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6505009269083	ATROPINE INJECTION AQUEOUS TYPE 0.7ML SYRINGE WITH NEEDLE (Note: Part of MARK 1)	3	EA	120000	0.05	0.002	6.96	6000	240	835200
6505014916143	CIPROFLOXACIN 500MG TABLETS BLISTER PACK 10S (BID, 5 DAYS)	1	PG	40000	0.18	0.12	15.5	7200	4800	620000
6505012740951	DIAZEPAM INJECTION USP 5MG/ML 2ML SYRINGE-NEEDLE UNIT	1	EA	40000	0.15	0.008	12.32	6000	320	492800
6505014915504	DOXYCYCLINE HYCLATE TABS USP 100MG 10S (BID, 5 DAYS)	1	PG	40000	0.55	0.12	Unk*	22000	4800	unk
6505014964916	POTASSIUM IODINE TABS 130MG 14S	1	PG	40000	0.55	0.015	7.14	22000	600	285600
6505011253248	PRALIDOXIME CHLORIDE FOR INJ 300MG/ML 2ML AUTOMATIC INJECTOR (Note: Part of MARK 1)	3	EA	120000	0.13	0.008	13.7	15600	960	1644000
6505011787903	PYRIDOSTIGMINE BROMIDE TABLETS USP 30MG 21S	1	PG	40000	0.4	0.028	47.07	16000	1120	1882800

\*Cost for this item is currently not known.

UI =Unit of Issue; UW = Unit Weight; UC = Unit Cube; U\$ = Unit Cost; Tot\_W = Total Weight; Tot\_C = Total Cube; Tot\_\$ = Total Cost.



**Chemical Casualty Projection.** Projecting the amount of medical supplies required for treating personnel wounded in a chemical or biological warfare environment first required a means of estimating casualties. One Navy formula for estimating chemical casualties is to take the projected number of conventional combat casualties in a given scenario and increase it by a certain percentage.<sup>6</sup> An increase of 10% was recommended for this study. (S.S. Sherman, CDR, USN, NEPMU5, personal communication, 17 December 02.) A wounded-in-action (WIA) rate of 3.27 per 1,000 combatants per day was arrived at using the NHRC casualty projection model, FORECAS, with Iraq used in a Southwest Asia scenario with heavy battle intensity, and selecting “unknown” for climate and terrain factors. Applying that figure to a 16,000-man Marine Expeditionary Brigade (MEB), a daily WIA occurrence of 52.32 casualties was achieved. That figure was projected out to 3,139 conventional casualties over a 60-day period. Increasing that number by 10% resulted in a chemical agent casualty estimate of 3,453 for the MEB over a 60-day campaign.

**Biological Casualty Projection.** Research showed there were no generally accepted means of projecting biological agent casualties.<sup>6</sup> However, a study published by the World Health Organization (WHO) in 1970 estimated the number of casualties resulting from attacks against cities of differing sizes and levels of industrialization using various biological agents. Among those agents were Venezuelan equine encephalitis, plague, Q fever, tularemia, anthrax, and botulism. The published study used full numbers in showing how many persons in the PARs would die and how many would be incapacitated by illness.<sup>7</sup> Though published more than 30 years ago, our research showed the WHO study is still widely cited by current literature on biological warfare, including a special series of articles appearing recently in the *Journal of the American Medical Association*.<sup>8</sup>

Included in the WHO study’s scenarios was an estimate of the number of people incapacitated by attacks on urban populations of approximately 500,000 in an industrially developing country. These numbers ranged from 20,000 victims to 125,000 victims, depending on the type of biological agent. Using these numbers, we calculated the percentage rates for projected casualties in each bio-attack scenario. For biological agents not used in the WHO study, we used the rates for agents that were used in the WHO study and which had similar dispersal and toxicity profiles.<sup>8-12</sup> Once these WIA rates were determined, we calculated the casualty numbers for each agent in an attack on a MEB size force (Table 5).

**Table 5: Calculating Casualties From a Biological Attack Against an MEB**

BIOLOGICAL AGENT	ESTIMATED PERCENTAGE OF CASUALTIES IN ONE BIO ATTACK*	NOTES	CASUALTIES IN A 16,000-PERSON BRIGADE
ANTHRAX	25	WHO ESTIMATES	4,000
PLAGUE	20	WHO ESTIMATES	3,200
BOTULISM	40	WHO ESTIMATES	6,400
STAPHYLOCOCCAL ENTEROTOXIN B	40	EXPOSURE POTENTIAL SIMILAR TO BOTULISM	6,400
VENEZUELAN EQUINE ENCEPHALITIS	7	WHO ESTIMATES	1,120
SMALLPOX	20	EXPOSURE POTENTIAL SIMILAR TO PLAGUE	3,200
TULAREMIA	25	WHO ESTIMATES	4,000
RICIN	40	EXPOSURE POTENTIAL SIMILAR TO BOTULISM	6,400
Q FEVER	25	WHO ESTIMATES	4,000

\*Based on "Health Aspects of Chemical and Biological Weapons," World Health Organization, 1970.

These biological-agent casualty figures, along with the chemical-agent estimates, were used to calculate the amount of medical supplies needed to treat each of the projected casualties for each type of attack for a 24-hour period. The results were aggregated then multiplied by 3 to project the supply requirements for a 72-hour period. (Note: Some medications, such as eye drops and inhalers, were not multiplied by a factor of 3 because they are issued as independent, multi-day supplies.) The cost, weight, and cube were then calculated for each item (Table 6).

**Table 6: Proposed Quantities for NBC Unit AMAL 688 for an MEB-Size Force**

NSN	NOMENCLATURE	PROPOSED QTY IN UI	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6505011169245	ALBUTEROL INHALATION AEROSOL 17GM CONTAINER 200 SPRAYS	3,453	PG	0.13	0.01	\$18.36	448.89	31.077	63,397.08
6505009578089	ATROPINE SULFATE INJECTION USP 1ML VIAL 25 VIALS PER PACKAGE	4,974	PG	1.15	0.01	\$20.57	5720.1	59.688	102,315.18
6505005824735	ATROPINE SULFATE OPHTHALMIC SOLUTION USP 1% 15ML	3,453	BT	0.08	0.00	\$3.57	276.24	13.812	12,327.21
6505007540280	CHLORAMPHENICOL SODIUM SUCCINATE 1GM VIAL 10S	3,840	BX	0.06	0.01	\$37.33	230.4	46.08	143,347.20

NSN	NOMENCLATURE	PROPOSED QTY IN UI	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6505014916143	CIPROFLOXACIN 500MG TABLETS BLISTER PACK 10S (BID, 5 DAYS)	6,720	PG	0.55	0.12	\$40.50	3696	806.4	272,160.00
6505013366179	CIPROFLOXACIN INJ D5W 2MG/ML 200ML BAG 24S	2,304	PG	4.44	0.11	\$237.48	10229.76	258.048	547,153.92
6515014661195	CIRCUIT VENTILATOR VINYL DISP 6FT LG 15S	427	PG	1.15	0.15	\$ 80.00	491.05	64.05	34,160.00
6505011875540	CLINDAMYCIN	960	PG	1.05	0.04	\$11.50	1008	38.4	11,040.00

	PHOSPHATE IV 6ML VI 25S (10ml syringe req'd)								
6505015053476	DIAZEPAM INJECTION 5MG/ML 2ML CARTRIDGE-NDL UNIT (Note: CANA) 10S	2,073	PG	0.25	0.02	\$12.57	518.25	31.095	26,057.61
6505000095063	DOXYCYCLINE HYCLATE CAPSULES USP 100MG 500S	87	BT	0.92	0.06	\$28.83	80.04	5.046	2,508.21
6505011084828	DOXYCYCLINE HYCLATE FOR INJECTION USP 100MG BT 5S (10ml syringe req'd)	8,640	PG	0.30	0.05	\$10.54	2592	432	91,065.60
6515013750513	FILTER HEAT & MOISTURE EXCHANGE ANES/VENT 50S	128	PG	0.30	0.20	\$274.39	38.4	25.6	35,121.92
6505012560710	GENTAMICIN INJ 40MG/ML 20ML MULTI DOSE VI 10S (Note: 10ml syringe req'd)	1,080	PG	1.10	0.03	\$2.36	1188	32.4	2,548.80
6515013448487	INJECTOR TUBE PLAS ACCOM 1ML MEDICATION CARTRIDGE UNIT (Req'd for Diazepam)	25	EA	0.11	0.07	\$5.77	2.75	1.75	144.25
6515012796450	MONITOR OXYGEN BATTERY 6.75x3.50IN ALARMED	9	EA	4.5	0.31	\$700.00	40.5	2.745	6,300.00
6505014667522	PHYSOSTIGMINE SALICYLATE INJECTION USP 1MG/ML 2ML 10 AMPULES/PG (3ml syringe req'd)	10,359	PG	0.55	0.02	\$19.83	5697.45	155.385	205,418.97
6505010801986	PRALIDOXINE CHLORIDE STERILE 1 GM 6S (10ml syringe req'd)	2,592	BX	0.63	0.03	\$76.30	1632.96	64.8	197,769.60
6505013162804	RIFAMPIN 600MG 25 ML VI 1S (20ml syringe req'd)	12,000	VI	0.21	0.00	\$51.12	2520	12	613,440.00
6505011434641	SODIUM NITRITE/SODIUM THIO-SULFATE CYANIDE TREATMENT KIT	5,180	EA	1.25	0.02	\$106.51	6475	82.88	551,721.80
6515014587025	SYRINGE & NEEDLE HYPO 10ML 21GA 100S	1,701	PG	0.35	0.11	\$40.00	595.35	187.11	68,040.00

NSN	NOMENCLATURE	PROPOSED QTY IN UI	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6515014520465	SYRINGE AND NEEDLE HYPO SAFETY 3ML 23 GA STER DISP 100S	11,604	PG	0.60	0.70	\$82.35	6962.4	8122.8	955,589.40
6530014551653	VENTILATOR VOLUME PTBL 8.870X11.5 UNI-VENT 120/220V AC	9	EA	1.50	0.50	\$189.20	13.5	4.5	1,702.80

UI = Unit of Issue; UW = Unit Weight; UC = Unit Cube; U\$ = Unit Cost; Tot\_W = Total Weight; Tot\_C = Total Cube; Tot\_\$ = Total Cost

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## CONCLUSION

The current study's method of modeling clinical needs, coupled with its forecasting of casualty patient streams, revealed the original Marine Corps AMAL 688 was deficient in both supply items and quantities. The existing NBC supply block was primarily designed to deal with nerve agent attacks. It lacked an ability to address casualties from biological agents or chemical vesicants such as mustard gas or phosgene, which are considered prime battlefield threats.

The proposed upgrade of AMAL 688 increases the supply block's weight, cube, and cost. However, with that increase comes greater capability for providing medical treatment to Marines injured by biochemical agents. Furthermore, each item possesses an audit trail validating its clinical need, addressing the Marine Corps standards for mobility by carrying only essential items.

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# **APPENDIX A**

## **Biological and Chemical Warfare Patient Conditions**

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## Appendix A

### Biological and Chemical Warfare Patient Conditions (JRCAB)

No.	Patient Condition
351	Anthrax, Inhalation, Non-Vaccinated, Incubating, Asymptomatic
352	Anthrax, Inhalation, Non-Vaccinated, Prodromal
353	Anthrax, Inhalation, Non-Vaccinated, Prodromal
353	Anthrax, Inhalation, Non-Vaccinated, Acute
354	Anthrax, Inhalation, Vaccinate, Asymptomatic
355	Anthrax, Inhalation, Vaccinated, Prodromal
356	Anthrax, Inhalation, Vaccinated, Acute
357	Plague, Inhalation, Incubating, Asymptomatic
358	Plague, Inhalation, Acute
359	Plague Meningitis
360	Botulism With Respiratory Failure
361	Botulism Exposure Without Symptoms
362	Staphylococcal Enterotoxin B With Respiratory Failure
363	Staphylococcal Enterotoxin B Without Respiratory Failure
364	Venezuelan Equine Encephalitis With CNS Involvement
365	Smallpox, Incubating, Asymptomatic
366	Smallpox, Symptomatic
367	Tularemia, Inhalation, Incubating, Asymptomatic
368	Tularemia, Inhalation, Acute
369	Ricin, Inhalation
370	Q Fever, Inhalation, Incubating, Asymptomatic
371	Q Fever, Inhalation, Acute
372	Botulism Exposure Without Symptoms
382	Nerve Agent, Vapor Only (Inhalation), Mild
383	Nerve Agent Vapor Moderate
384	Nerve Agent, Vapor, Severe
385	Nerve Agent, Liquid, Mild
386	Nerve Agent, Liquid, Moderate
387	Nerve Agent, Liquid, Moderately Severe
388	Nerve Agent, Liquid, Severe
389	Wound, Lower Leg, Open, Lacerated, Penetrating, Without Fractures, Requiring Major Debridement, Moderately Contaminated With Liquid Nerve Agent.
390	Nerve Agent Combined Penetrating Abdominal Wound
391	Mustard Liquid/Vapor Mild

<b>No.</b>	<b>Patient Condition</b>
392	Mustard Liquid/Vapor Moderate
393	Mustard Liquid/Vapor Severe
394	HD/Lewisite Combination, Mild
394	HD/Lewisite Combination, Mild
395	Phosgene Oxime
396	Cyanide (AC) Inhalation, Mild
397	Cyanide (AC) Inhalation, Severe
398	Pulmonary Agent With Early (<4 Hours) Symptoms
399	Pulmonary Agent With Delayed (>4 Hours) Symptoms
400	Anticholinergic Incapacitating Agent
401	White Phosphorus Injury, Skin Exposure



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## **APPENDIX B**

### **NBC Tasks and Supplies First Responder**

## Appendix B

### NBC Tasks and Supplies First Responder

(Supply quantities shown are the requirements for conducting each task one time.)

Task	NSN	Nomenclature	Amt	UM
<b>001</b>	<b>TRIAGE<sup>1</sup></b>			
	6530007837510	Litter Nonrigid Poleless Nylon 78x26in	1	EA
	8465013376792	Tag Id Personnel Cardboard 8.188inx4.062in Field Triage 200s	1	EA
<b>002</b>	<b>ASSESSMENT &amp; EVALUATION OF PATIENT STATUS<sup>1</sup></b>			
	6515003245500	Depressor Tongue Wood 6x.75in STR 100S	1	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	0.5	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	0.5	PR
	6545014586057	Otoscope & Ophthalmoscope Set Basic Soft	1	SE
<b>006</b>	<b>ESTABLISH AND ENSURE ADEQUATE AIRWAY — ORO/NASO PHARYNGEAL</b>			
	6515009582232	Airway Pharyngeal Berman Design 80mm 12S	0.6	EA
	6515011649637	Airway Pharyngeal 4" Airway/Cut Away Flange Kink Res 30fr 100mm 30S	0.2	EA
	6515011676637	Airway Nasopharyngeal Robertazzi 30fr 12S	0.2	EA
<b>019</b>	<b>EMERGENCY CONTROL OF HEMORRHAGE</b>			
	6510002017430	Dressing First Aid Field Camo 7x8in	1	EA
<b>024</b>	<b>VITAL SIGNS</b>			
	6515013738659	Cover Electronic Thermometer Probe Plastic Disposable 100S	1	EA
	6515010394884	Sphygmomanometer Aneroid 300mm Max Calibration W/Clip For Cuff	1	EA
	6515013146694	Stethoscope Combination Littman Classic II 28"Lg Bell-Diaphragm	1	EA
	6515013737292	Thermometer Clinical Human Oral Digital Ltwt 300 Hour Use Plastic	1	EA
<b>049</b>	<b>START/CHANGE IV INFUSION SITE<sup>1</sup></b>			
	6515013909627	Catheter & Needle Unit IV 14gax1.25in 200S	0.15	EA
	6515013909654	Catheter & Needle Unit IV 18gax1.25in 200S	0.85	EA
	6515011050614	Iv Inj Set Macrodrip 15 Drops/MI 50s	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100	1	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.05	RL
<b>050</b>	<b>ADMINISTER IV FLUIDS</b>			
	6505014623025	Ringer's Injection Lactated USP 1000ml Bag 12 Bags Per Package	0.75	EA
	6505014622436	Sodium Chloride Injection USP 100oml Bag 12S	0.25	EA
<b>085</b>	<b>WOUND IRRIGATION</b>			
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	0.5	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	0.5	PR
	6505014622436	Sodium Chloride Injection USP 100oml Bag 12S	1	EA
<b>086</b>	<b>CLEAN AND DRESS WOUND<sup>1,2</sup></b>			
	6510000583047	Bandage Gauze 6-Ply Rolled White Sterile 4ydx4.5in I.S. 100S	2-4	RL
	6510014575844	Dressing Burn First Aid Water-Gel Type Polyester 8x18	1-2	EA
	6510007863736	Pad Isopropyl Alcohol Impreg Nonwvn Cotton/Rayon 1x2.5in, 100s	1	EA
	6510007219808	Sponge Surgical Cellulose/Cotton/Gauze 4 x 4	3	EA
	6505014622436	Sodium Chloride Injection USP 100oml Bag 12s	1	EA
	6510009268884	Tape Adhesive Surgical Porous Woven Rayon 3"x10yds	0.1-0.25	RL

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
<b>098</b>		<b>APPLY SPLINT/IMMOBILIZE INJURY</b>		
	6510001055807	Bandage Elastic Coban Brown Nonster 5yd x 3in 24s	1	RL
	6515012254681	Splint Malleable Alum 36x4.5IN 12S	1	EA
	6510009268884	Tape Adhesive Surg Woven 3inx10yd 4S	0.2	RL
<b>108</b>		<b>MINOR SURGICAL PROCEDURE (DEBRIDE/SUTURE/INCISION)<sup>1</sup></b>		
	6510000583047	Bandage Gauze Kerlix 4.5ins x 4yds 100S	1	RL
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	0.5	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	0.5	PR
	8520013535671	Skin Cleanser 60pct Alcohol No Rinsing	2	OZ
	6510000547254	Skin Closure Adh Surg Porous .50x4in 300S	4	EA
	6545009577650	Surgical Instrument Set Minor Surgery	1	EA
<b>127</b>		<b>PATIENT RESTRAINT (GAUZE, TIES)</b>		
	6510000583047	Bandage Gauze Kerlix 4.5ins x 4yds 100S	3	RL
<b>142</b>		<b>ORDER AND DOCUMENT APPROPRIATE MEDS/TREATMENT</b>		
	7520009357136	Pen Ball-Point Retractable Med Pt Black	0.05	EA
	0102LF0135500	US Field Medical Card Form DD 1380	1	EA
<b>145</b>		<b>ADMINISTER APPROPRIATE MEDICATION<sup>1,2</sup></b>		
	6505009269083	Atropine Injection Aqueous Type 0.7ml Syringe With Needle	1-3	EA
	6505009857301	Acetaminophen Tablets USP 0.325gm 1000s	2	TB
	6505011253248	Pralidoxime Chloride For Inj 300mg/ML 2ml Automatic Injector	1-3	EA
	6505012740951	Diazepam Inj USP 5mg/ml 2ml Syringe-Needle 10S	1	EA
	6505014915504	Doxycycline Hyclate Tabs USP 100mg 10s (Bid, 5 Days)	1	TB
	6505014916143	Ciprofloxacin 500mg Tablets Blister Pack 10s (Bid, 5 Days)	1	TB
<b>279</b>		<b>ARRANGE AND DOCUMENT RETURNS TO DUTY</b>		
	XXXXXXXX13	No Medical Supplies At This Level Of Care	0	XX
<b>Z014</b>		<b>ESTABLISH AND ENSURE ADEQUATE AIRWAY (INTUBATION)<sup>1</sup></b>		
	6515014509790	Laryngoscope Set Softcase w/Light Blades	1	EA
	6515010369034	Tube Endotracheal Murphy 7.5mm 10S	0.5	EA
	6515001050759	Tube Endotracheal Murphy 8.0mm Od 10S	0.5	EA
<b>Z277</b>		<b>PREPARE FOR EVAC GROUND/AIR — LITTER/STRAPS</b>		
	XXXXXXXX13	No Supplies Assigned This Task	0	XX

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* vary depending on NBC patient type.

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## **APPENDIX C**

### **NBC Tasks and Supplies Battlion Aid Station**

## Appendix C

### NBC Tasks and Supplies Battlion Aid Station

(Supply quantities shown are the requirements for conducting each task one time.)

Task	NSN	Nomenclature	Amt	UM
<b>001</b>	<b>TRIAGE<sup>1</sup></b>			
	8405008893683	Liner Wet Weather Poncho (Tri-Service Approved Blanket)	1	EA
	6530014325114	Litter Decontamination Mass Casualty	1	EA
	6530006600034	Support Litter Folding Lightweight Aluminum 31.5" High	1	PR
	8465013376792	Tag Id Personnel Cardboard 8.188inx4.062in Field Triage 200S	1	EA
<b>002</b>	<b>ASSESSMENT &amp; EVALUATION OF PATIENT STATUS<sup>1</sup></b>			
	6135008264798	Battery Nonrechargeable 1.5v Aaa 24s	0.2	EA
	6135009857845	Battery Nonrechargeable Alkaline 1.5v 1 Year Shelf Life	0.2	EA
	6515003245500	Depressor Tongue Wood 6x.75IN STR 100S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	0.5	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	0.5	EA
	6545014586178	Otoscope & Ophthalmoscope Set Deluxe Softcase	1	SE
	6550012215400	Test Strips/Color Chart Bilirubin 100S	1	EA
<b>006</b>	<b>ESTABLISH AND ENSURE ADEQUATE AIRWAY — ORO/NASO PHARYNGEAL</b>			
	6515011676637	Airway Nasopharyngeal Robertazzi 30fr 12s	0.2	EA
	6515009582232	Airway Pharyngeal Berman Design 80mm 12S	0.6	EA
	6515011649637	Airway Pharyngeal Cut Away Flange 30fr 30S	0.2	EA
<b>007</b>	<b>EMERGENCY CRICOTHYROIDOTOMY</b>			
	6515013215211	Airway Kit Percutaneous Emergency Adult 1S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	0.5	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	0.5	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	0.5	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	0.5	PR
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100	2	EA
	6510007219808	Sponge Surg Cotton Gauze 4x4in Sterile 1200S	10	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.01	RL
<b>017</b>	<b>SUCTION (ORAL/TRACH/ENDO)</b>			
	6515014493193	Canister Suction 1200ml W/Lid Plastic 10S	0.05	EA
	6515003867600	Cannula Laryngeal Angular Yankauer 9" Lg	0.65	EA
	6515004588413	Catheter & Connector Suction Trach 10fr 50S	0.35	EA
	6515014350050	Suction Apparatus Surgical Portable	1	EA
<b>024</b>	<b>VITAL SIGNS</b>			
	6515013738659	Cover Electronic Thermometer Probe Plastic Disposable 100S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	0.05	EA
	6515010394884	Sphygmomanometer Aneroid 300mm Max Calibration w/clip for Cuff	1	EA
	6515013146694	Stethoscope Combination Littman Classic II 28"Lg Bell-Diaphragm	1	EA
	6515013737292	Thermometer Clinical Human Oral Digital Ltwt 300 Hour Use Plastic	1	EA

<sup>1</sup>Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
<b>049</b>	<b>START/CHANGE IV INFUSION SITE</b>			
	6515013909627	Catheter & Needle Unit IV 14gax1.25in 200S	0.75	EA
	6515013909654	Catheter & Needle Unit IV 18gax1.25in 200S	0.15	EA
	6515013909650	Catheter & Needle Unit IV 20gax1.25in 200S	0.10	EA
	6515011050614	IV Inj Set Macrodrip 15 drops/ml 50S	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5IN 100	1	EA
	6510009268882	Tape AdhesIVe Surg Woven 1inx12yd 12S	0.05	RL
<b>050</b>	<b>ADMINISTER IV FLUIDS</b>			
	6505014623025	Ringer's Injection Lactated USP 1000ml Bag 12S	0.75	EA
	6505014622436	Sodium Chloride Injection USP 100oml Bag 12S	0.25	EA
<b>071</b>	<b>INSERT NG/OG TUBE</b>			
	6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30ml	0.35	ML
	6505001538809	Lubricant Surgical 4oz (113.4gm) Tube	0.1	OZ
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.1	RL
	6515001490316	Tube Stomach Surgical Plastic Salem 50S	1	EA
<b>085</b>	<b>WOUND IRRIGATION</b>			
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	0.5	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	0.5	EA
	6505014622436	Sodium Chloride Injection 0.9% 1000ml Bag 12S	2	EA
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	5	EA
<b>086</b>	<b>CLEAN AND DRESS WOUND<sup>1, 2</sup></b>			
	6510000583047	Bandage Gauze 6-Ply R0lled White Sterile 4ydx4.5in I.S. 100S	2-4	RL
	6510014575844	Dressing Burn First Aid Water-Gel Type Polyester 8x18	1-2	EA
	6510000835573	Dressing First Aid Field White	1	EA
	6510010037697	Gauze Absorbent Iodoform Impregnated .25	1	RL
	6510007822699	Sponge Surgical 12-Ply Gauze Absorb Compressed 8x4	1	EA
	6510007219808	Sponge Surgical Cellulose/Cotton/Gauze 4 X 4	3	EA
	6510009268882	Tape Adhesive Surgical Porous Woven Rolled Rubber 1rl	0.1-0.2	RL
<b>121</b>	<b>EYE IRRIGATION</b>			
	6530007709220	Basin Emesis Steel Kidney Shape 500ml	1	EA
	6515013909627	Catheter & Needle Unit IV 14gax1.25in 200S	1	EA
	6505014622436	Sodium Chloride Injection 0.9% 1000ml Bag 12s	1	EA
	6510007822698	Sponge Surg 8-Ply Gauze White 4x4in 200S	2	EA
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	1	EA
<b>122</b>	<b>EYE DROPS INSTILLATION<sup>1</sup></b>			
	6505009820288	Erythromycin Ophthalmic Ointment USP 5mg/Gm .125oz 3.5gm Tube	1	TU
	6505010222646	Gentamicin Sulf Ophth Sol USP Equiv 3mg/ML 5ml	1	ML
	6505009617486	Polyvinyl Alcohol Ophthalmic Solution Artificial Tears 1.4% 15ml	1	ML
<b>123</b>	<b>EYE CARE (DRESSINGS/EYE PATCH)</b>			
	6515012538165	Shield Eye Surg Goffman 50S	1.5	EA
	6510007219808	Sponge Surg Cotton Gauze 4x4in Sterile 1200S	1	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.25	RL

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* may vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
<b>125</b>	<b>SPONGE/HYPERTHERMIA TREATMENT</b>			
	6530014445476	Pad Cooling Chemical 24S	4	EA
	6530001101854	Towel Pack Surg Blue/Green Sterile Disp 96S	1	EA
<b>127</b>	<b>PATIENT RESTRAINT (GAUZE, TIES)</b>			
	6510000583047	Bandage Gauze Kerlix 4.5in x 4yds 100S	3	RL
<b>142</b>	<b>ORDER AND DOCUMENT APPROPRIATE MEDS/TREATMENT</b>			
	7540006344176	Form Printed Chronc Rec Of Med Care 100S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	0.05	EA
<b>145</b>	<b>ADMINISTER APPROPRIATE MEDICATION<sup>1,2</sup></b>			
	6505009857301	Acetaminophen Tablets USP 0.325gm 1000S	2	TB
	6505009578089	Atropine Sulfate Injection USP 1ml Vial 25 Vials Per Package	1-2	VI
	6505005824735	Atropine Sulfate Ophthalmic Solution USP 1% 15ml	0.5	ML
	6505014213787	Cetylpyridinium Chlor&Benzocaine Lozenges	12	LZ
	6505014916143	Ciprofloxacin 500mg Tablets Blister Pack 10S (Bid, 5 Days)	1-3	TB
	6505013366179	Ciprofloxacin Inj D5w 2mg/ML 200ml Bag 24S	1	EA
	6505011875540	Clindamycin Phosphate Iv 6ml Vi 25s	1	VI
	6505015053476	Diazepam Injection USP 5mg/ML 2 ML Cartridge Unit 10S	1	EA
	6505001168350	Diphenhydramine Hydrochloride Capsules USP 50mg 100 Caps/Bt	12	CP
	6505001487177	Diphenhydramine Hydrochloride Inj USP 50mg/ML 1ml Syringe 10/Bx	1	EA
	6505000095063	Doxycycline Hyclate Capsules USP 100mg 500S	4	CP
	6505011084828	Doxycycline Hyclate Injection 100mg Vial 5S	1-2	EA
	8105010990355	Envelope Drug Dispensing 5x3	1-2	EA
	6505009820288	Erythromycin Ophthalmic Ointment USP 5mg/Gm .125oz 3.5gm Tube	1	TU
	6505012560710	Gentamicin Inj 40mg/ML Multi Dose Vi 10S	3	ML
	6505010222646	Gentamicin Sulf Ophth Sol USP Equiv 3mg/ML 5ml	1	ML
	6505013296484	Guaifenesin and Dextromethorphan Hydrobromide 100S	1	TB
	6515013448487	Injector Tube Reusable 1ml & 2ml Ndl Units	1	EA
	6505009262111	Meclizine Hydrochloride Tabs USP Chewable 25mg 100S	1	TB
	6505014667522	Physostigmine Salicylate Injection USP 1mg/ml 2ml 10 Ampules/pg	2	AM
	6505009617486	Polyvinyl Alcohol Ophthalmic Solution Artificial Tears 1.4% 15ml	1	ML
	6505010801986	Pralidoxine Chloride Sterile 1 GM 6S	1.8	GM
	6505013162804	Rifampin 600mg 25ml Vi	1	VI
	6505011434641	Sodium Nitrite/Sodium Thio-Sulfate Cyanide Treatment Kit	1.5	EA
	6505005607331	Sulfadiazine Silver Cream 1% Topical 400gm Jar	50	GM
	6515014587025	Syringe & Needle Hypo 10ml 21ga 100S	2-3	EA
	6515014520465	Syringe And Needle Hypo Safety 3ml 23ga Ster Disp 100S	1	EA
	6505006828194	Triamcinolone Acetonide Cream USP Topical 0.1% 15 gm	1	TU
<b>278</b>	<b>ARRANGE FOR PATIENT EVAC</b>			
	XXXXXXXXX13	No Medical Supplies Assigned This Task	0	XX
<b>279</b>	<b>ARRANGE AND DOCUMENT RETURN TO DUTY</b>			
	XXXXXXXXX13	No Medical Supplies At This Level Of Care	0	XX
<b>802</b>	<b>INITIAL/SUBSEQUENT NON-SURG DEBRIDE OF BURN OR OPEN WOUND</b>			
	6515009051473	Applicator Plastic/Wood Rod 6in Lg 2000S	4	EA
	6530007710105	Basin Wash Corrosion Resisting Steel 7qt	1	EA
	6515006600011	Blade Surgical Knife Detachable #10 6S	0.5	EA
	6515006600010	Blade Surgical Knife Detachable #11 6S	0.5	EA
	6530013643353	Brush-Sponge Surg Scrub Nonster 3% Pcmx 300S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	2	EA

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* may vary depending on NBC patient type

<b>Task</b>	<b>NSN</b>	<b>Nomenclature</b>	<b>Amt</b>	<b>UM</b>
	6515013648553	Glove Patient Exam/Treat Med Prepwr 100S	2	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	1	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	1	PR
	6515003447800	Handle Surg Knife Blade Sz 3 Narrow Nose	1	EA
	6505009143593	Povidone-Iodine Topical 10% .5fl Oz 50S	1	EA
	6505014622436	Sodium Chloride Injection 0.9% 1000ml Bag 12S	1	EA
	6510007219808	Sponge Surg Cotton Gauze 4x4in Sterile 1200S	10	EA
	6530008902025	Stand Basin Folding Front Aluminum	1	EA
	6530005518681	Stand Surgical Instrument Adj Field Olive	1	EA
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	1	EA
	6530007939570	Tray Instrument Steel 19x12x.75IN	1	EA
<b>Z014</b>	<b>INTUBATION</b>			
	6135008264798	Battery Nonrechargeable 1.5v AAA 24s	0.2	EA
	6515003245500	Depressor Tongue Wood 6x.75in 100S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwr 100S	0.35	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwr 100S	0.65	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	0.5	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	0.5	PR
	6515014509790	Laryngoscope Set Softcase w/Light Blades	1	EA
	6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30ml	1	ML
	6515013948327	Stylet Tracheal Tube 7.5-10mm Plas Disp 10S	0.25	EA
	6515007540412	Syringe Hypo Gp 10ml Cap Luer Slip 100S	1	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.15	RL
	6515010369034	Tube Endotracheal Murphy 7.5mm 10S	0.5	EA
	6515001050759	Tube Endotracheal Murphy 8.0mm Od 10S	0.5	EA
<b>Z037</b>	<b>BAG VALVE MASK SET UP</b>			
	6515012045394	Resuscitator Hand Operated High O <sub>2</sub>	1	EA
	6515015028791	Tube Inhaler Oxygen Plas 84" Lg Ster Self-Fit Connector 50S	1	EA
<b>Z039</b>	<b>PERFORM VENTILATION WITH BAG VALVE MASK</b>			
	XXXXXXXX26	Manual Task - No Medical Supplies Assigned	0	XX
<b>Z277</b>	<b>PREPARE FOR EVAC GROUND/AIR — LITTER/STRAPS</b>			
	XXXXXXXX13	No Medical Supplies Assigned This Task	0	XX



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**APPENDIX D**  
**NBC Tasks and Supplies**  
**Surgical Company**

## Appendix D

### NBC Tasks and Supplies Surgical Company

(Supply quantities shown are the requirements for conducting each task one time.)

Task	NSN	Nomenclature	Amt	UM
<b>001</b>	<b>TRIAGE<sup>1</sup></b>			
	8405008893683	Liner Wet Weather Poncho (Tri-Service Approved Blanket)	1	EA
	6530014325114	Litter Decontamination Mass Casualty	1	EA
	6530006600034	Support Litter Folding Lightweight Aluminum 31.5" High	1	PR
	8465013376792	Tag Id Personnel Cardboard 8.188inx4.062in Field Triage 200S	1	EA
<b>002</b>	<b>ASSESSMENT &amp; EVALUATION OF PATIENT STATUS<sup>1</sup></b>			
	6515013648554	Glove Patient Exam/Treat Lge Prepwr 100S	0.5	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwr 100S	0.5	EA
	6545014586178	Otoscope & Ophthalmoscope Set Deluxe Soft	1	SE
<b>006</b>	<b>ESTABLISH AND ENSURE ADEQUATE AIRWAY — ORO/NASO PHARYNGEAL</b>			
	6515011676637	Airway Nasopharyngeal Robertazzi 30fr 12S	0.2	EA
	6515011649637	Airway Pharyngeal Cut Away Flange 30fr 30S	0.8	EA
<b>017</b>	<b>SUCTION (ORAL/TRACH/ENDO)<sup>1</sup></b>			
	6515014493193	Canister Suction 1200ml w/Lid Plastic 10S	0.05	EA
	6515010726380	Cannula Laryn Yankaurer Dsgn 72in Lg 20S	1	EA
	6515009269201	Connector Tubing Straight 50S	1	EA
	6515014350050	Suction Apparatus Surgical Portable	1	EA
	6515011676666	Suction Set Tracheal 14FR x22 Plas 100S	1	EA
<b>022</b>	<b>OXYGEN ADMINISTRATION SET UP</b>			
	6515013716467	Mask Oxygen Oronasal Non-Rebreathing 50S	1	EA
	6515014626143	Oxygen Admin Kit, Case, Reg, Demand Valve	1	EA
<b>023</b>	<b>OXYGEN ADMIN CONTINUOUS</b>			
	6505001325181	Oxygen USP 99% Cylinder Ty-D 95gl	1	EA
<b>024</b>	<b>VITAL SIGNS</b>			
	6515013738659	Cover Electronic Thermometer Probe Plastic Disposable 100S	1	EA
	6515010394884	Sphygmomanometer Aneroid 300mm Max Calibration w/Clip For Cuff	1	EA
	6515013146694	Stethoscope Combination Littman Classic II 28"Lg Bell-Diaphragm	1	EA
	6515013737292	Thermometer Clinical Human Oral Digital Ltwt 300 Hour Use Plastic	1	EA
<b>031</b>	<b>MAINTAIN ON CARDIAC MONITOR (EQUIP TASK)</b>			
	6515011535752	Electrode Ekg Pregelled 4.4cm Dia 25S	3	EA
	6515014322711	Monitor Patient Vital Signs w/CO <sub>2</sub>	1	EA
<b>032</b>	<b>SET UP PULSE OXIMETER</b>			
	6135009857845	Battery Nonrechargeable 1.5v Aa 24S	0.2	EA
	6515014189022	Oximeter Pulse Hand-Held Batt Op w/Ear Clip	1	EA
<b>038</b>	<b>MAINTAIN ON VENTILATOR</b>			
	6515014661195	Circuit Ventilator Vinyl Disp 6ft Lg 15S	0.25	EA
	6515013750513	Filter Heat & Moisture Exchange Anes/Vent 50S	1	EA

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.

<sup>2</sup> Required *quantities* vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
	6515012796450	Monitor Oxygen Battery 6.75x3.50in Alarmed	1	EA
	6530014551653	Ventilator Volume Ptbl 8x11in Uni-Vent	1	EA
<b>049</b>	<b>START/CHANGE IV INFUSION SITE</b>			
	6515013909627	Catheter & Needle Unit IV 14ga x 1.25in 200S	0.10	EA
	6515013909654	Catheter & Needle Unit IV 18ga x 1.25in 200S	0.75	EA
	6515013909650	Catheter & Needle Unit IV 20ga x 1.25in 200S	0.15	EA
	6515011050614	Iv Inj Set Macro drip 15 Drops/ml 50S	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5IN 100	1	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.05	RL
<b>050</b>	<b>ADMINISTER IV FLUIDS</b>			
	6505014623025	Ringer's Injection Lactated USP 1000ml Bag 12S	0.75	EA
	6505014622436	Sodium Chloride Injection USP 1000ml Bag 12S	0.25	EA
<b>065</b>	<b>INSERT INTRAVENOUS LINES, LARGE BORE ACCESS</b>			
	6515012738647	Introducer Set Catheter Percutaneous 4 Comp 2	1	EA
<b>071</b>	<b>INSERT NG/OG TUBE</b>			
	6530014588301	Basin 7qt Sterilizable Plas Fits Stand 12S	1	EA
	6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30ml	0.35	ML
	6505001538809	Lubricant Surgical 4oz (113.4gm) Tube	0.1	OZ
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.1	RL
	6515001490316	Tube Stomach Surgical Plastic Salem 50S	1	EA
<b>073</b>	<b>PERFORM NG/OG SUCTION</b>			
	6515014493193	Canister Suction 1200ml w/Lid Plastic 10S	1	EA
	6515014350050	Suction Apparatus Surgical Portable	1	EA
<b>075</b>	<b>IRRIGATE NG/OG TUBE</b>			
	6530007710105	Basin Wash Corrosion Resisting Steel 7qt	1	EA
	6505014624194	Sodium Chloride Irrigation 0.9% 1000ml Bt 12S	0.1	BT
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	1	EA
<b>079</b>	<b>CATHETERIZATION, FOLEY</b>			
	6515001490104	Catheterization Kit Urethral 16fr Disp	1	EA
	6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30ml	0.35	ML
<b>085</b>	<b>WOUND IRRIGATION</b>			
	6530014940126	Basin Emesis Plas Disp 500cc 12S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	0.5	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	0.5	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	3	ML
	6505014624194	Sodium Chloride Irrigation 0.9% 1000ml Bt 12S	0.5	BT
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	1	EA
<b>086</b>	<b>CLEAN AND DRESS WOUND<sup>1, 2</sup></b>			
	6510000583047	Bandage Gauze 6-Ply Rolled White Sterile 4ydx4.5in I.S. 100S	3-4	RL
	6510014575844	Dressing Burn First Aid Water-Gel Type Polyester 8x18	1-2	EA
	6510000835573	Dressing First Aid Field White	1	EA
	6510007822699	Sponge Surgical 12-Ply Gauze Absorb Compressed 8x4	1	EA
	6510007219808	Sponge Surgical Cellulose/Cotton/Gauze 4 X 4	3	EA
	6510009268882	Tape Adhesive Surgical Porous Woven Rolled Rubber 1	0.2	RL

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<sup>2</sup> Required *quantities* may vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
<b>122</b>		<b>EYE DROPS INSTILLATION<sup>1,2</sup></b>		
	6505005824735	Atropine Sulfate Ophthalmic Solution USP 1% 15ml	0.5	ML
	6505010222646	Gentamicin Sulf Ophth Sol USP Equiv 3mg/ML 5ml	1	ML
	6505005824737	Tetracaine Hydrochloride Ophthalmic Solution 0.5% 15ml	0.5	ML
<b>125</b>		<b>SPONGE/HYPERTHERMIA TREATMENT</b>		
	7920011263250	Cloth Cleaning White 15x12" 900S	1	EA
	6505014624194	Sodium Chloride Irrigation 0.9% 1000ml BT 12S	1	BT
<b>127</b>		<b>PATIENT RESTRAINT (GAUZE, TIES)</b>		
	6510000583047	Bandage Gauze Kerlix 4.5in x 4yds 100S	3	RL
<b>128</b>		<b>PATIENT RESTRAINT, 4 POINT, LEATHER (COMBATIVE PATIENT)</b>		
	6505015053476	Diazepam Injection USP 5mg/ML 2 ML Cartridge Unit 10S	2	EA
	6515013448487	Injector Tube Reusable 1ml & 2ml Needle Units	1	EA
	6530007884010	Restraint Set Wrist/Ankle w/Carrying Case	1	SE
<b>145</b>		<b>ADMINISTER APPROPRIATE MEDICATION<sup>1,2</sup></b>		
	6505011169245	Albuterol Inhalation Aerosol 17gm Container 200 Sprays	1	CO
	6505001009985	Aspirin Tablets USP .324gm 100S	2	TB
	6505009578089	Atropine Sulfate Injection USP 1ml Vial 25 Vials Per Package	1-2	VI
	6505005824735	Atropine Sulfate Ophthalmic Solution USP 1% 15ml	0.5	ML
	6505007540280	Chloramphenicol Sodium Succinate 1gm Vial 10S	1	VI
	6505014916143	Ciprofloxacin 500mg Tablets Blister Pack 10S	1	TB
	6505013366179	Ciprofloxacin Inj D5w 2mg/ML 200ml Bag 24S	1	EA
	6505011875540	Clindamycin Phosphate Iv 6ml Vi 25S	1	VI
	6505015053476	Diazepam Injection USP 5mg/ml 2 ml Cartridge Unit 10S	1	EA
	6505001487177	Diphenhydramine Hydrochloride Inj USP 50mg/ml 1ml Syringe 10/Bx	1	EA
	6505000095063	Doxycycline Hyclate Capsules USP 100mg 500S	1	CP
	6505011084828	Doxycycline Hyclate Injection 100mg Vial 5S	1-2	EA
	6505012560710	Gentamicin Inj 40mg/ml 20ml Multi Dose Vial 10S	0.5	VI
	6515013448487	Injector Tube Reusable 1ml & 2ml Needle Units	.25	EA
	6505014667522	Physostigmine Salicylate Injection USP 1mg/ml 2ml 10 Ampules/Pg	1	EA
	6505010801986	Pralidoxine Chloride Sterile 1gm 6S	1	GM
	6505013162804	Rifampin 600mg 25ml Vial 1S	0.5	VI
	6505011434641	Sodium Nitrite/Sodium Thio-Sulfate Cyanide Treatment Kit	1	EA
	6505005607331	Sulfadiazine Silver Cream 1% Topical 400gm Jar	50-400	GM
	6515014587025	Syringe & Needle Hypo 10ml 21ga 100S	1-3	EA
	6515014520465	Syringe and Needle Hypo Safety 3ml 23 Ga Ster Disp 100S	1	EA
<b>153</b>		<b>LUMBAR PUNCTURE</b>		
	XXXXXXXX10	Supplies Listed In The Individual Lab Tasks	0	XX
<b>197</b>		<b>CHARTING &amp; PAPERWORK — PATIENT SPECIFIC</b>		
	7540006344121	Form Printed Clinic Record Doc 10.5x8" 100S	1	EA
	7540006344122	Form Printed Clinical Doctor's Notes 100S	1	EA
<b>202</b>		<b>ADMIT NEW PATIENT TO WARD</b>		
	XXXXXXXX21	No Meds Assigned At This Level Of Care	0	XX
<b>247</b>		<b>PLACE RESPIRATORY ISOLATION MASK</b>		
	6515007822621	Mask Surgical Nonwoven Fabric Disp 50S	1	EA

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<sup>2</sup> Required *quantities* vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
<b>279</b>	<b>ARRANGE AND DOCUMENT RETURN TO DUTY</b>			
	XXXXXXX13	No Medical Supplies At This Level Of Care	0	XX
<b>280</b>	<b>PATIENT DISCHARGE INSTRUCTION</b>			
	XXXXXXX25	No Assigned Supplies At This Level Of Care	0	XX
<b>359</b>	<b>INDUCE LOCAL ANESTHESIA<sup>1</sup></b>			
	6505014554200	Lidocaine & Epinephrine Inj 1:100000 20 Ml Vial	2	ML
	6505005986116	Lidocaine Hcl Inj USP 1% 10mg/ml 50ml BT	3	ML
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100S	1	EA
	6515014587025	Syringe And Needle Unit 10cc & 21ga Vanish Point 100S	1	EA
<b>595</b>	<b>BLOOD GAS ESTIMATION</b>			
	6630015008737	Analyzer Blood Hand-Held	1	EA
	6550015008742	Cartridge Analyzer Blood Cc Combo 25S	1	EA
<b>596</b>	<b>ELECTROLYTE LEVELS (NA, K, CL, CO<sub>2</sub>)</b>			
	6630015008737	Analyzer Blood Hand-Held	1	EA
	6550015008742	Cartridge Analyzer Blood Cc Combo 25S	1	EA
<b>599</b>	<b>SERUM CREATININE</b>			
	6630014151593	Analyzer, Blood Chemistry, Piccolo	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	1	EA
	7530002223525	Book, Memorandum, 10.5x8	0.5	PG
	6530011832863	Container Disposal Hypo Needle & Syringe 6.9 Qt Plas Puncture Resist 12S	0.6	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	0.5	EA
	6630012309964	Holder Blood Collecting Tube Plastic 10S	1	EA
	6515004312890	Lancet Finger Bleeding 1.5in Blade 100S	1	EA
	6515010032368	Needle Hypo Bld Coll 20gax1.50IN 1000S	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5IN 100	2	EA
	7510001743205	Pencil Red Glazed Extr-Thick 6in 12S	0.04	EA
	6640010887108	Pipette Transfer 1.5ml Capacity 4in Lg Disp 500	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	1	ML
	6640002998490	Rack, Test Tube, Laboratory, 10	1	EA
	6550014866146	Reagent Rotor Piccolo Gen Chem 12 Test 10S	1	EA
	4110001156027	Refrigerator Mechanical Biologicals 115v	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6510007822700	Sponge Surg12-Ply Gauze 2x2in Sterile 200S	1	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6630011081444	Tube Blood Collecting 5ml Green w/Lith 100S	1	EA
	6515013851697	Tube Drainage Surg Penrose 7/8	1	EA
<b>603</b>	<b>BLOOD GLUCOSE LEVEL</b>			
	6515013851697	Tube Drainage Surg Penrose 7/8	1	EA
	6630014151593	Analyzer, Blood Chemistry, Piccolo	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 Pages	0.25	PG
	6530011832863	Container Dispose Hypo Ndl & Syr 6.9qt 12S	0.06	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	0.5	EA
	6630012309964	Holder Blood Collecting Tube Plastic 10S	0.1	EA
	6515004312890	Lancet Finger Bleeding 1.5in Blade 100S	1	EA
	6515010032368	Needle Hypo Bld Coll 20gax1.50in 1000S	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100	1	EA
	7510001743205	Pencil Red Glazed Extr-Thick 6in 12S	0.03	EA

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<sup>2</sup> Required *quantities* vary depending on NBC patient type.

Task	NSN	Nomenclature	Amt	UM
	6640010887108	Pipette Transfer 1.5ml Capacity 4in Lg Disp 500	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	1	MI
	6640002998490	Rack, Test Tube, Laboratory, 10"4.25"X2.5"	1	EA
	4110001156027	Refrigerator Mechanical Biologicals 115v	1	EA
	6550014866146	Rotor Reagent Gen Chem 12 Test 10S	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6510007822700	Sponge Surg12-Ply Gauze 2x2in Sterile 200S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6630011081444	Tube Blood Collecting 5ml Green W/Lith 100S	1	EA
	6515013851697	Tube Drainage Surg Penrose 7/8x12in 200S	0.5	EA
<b>604</b>	<b>BUN LEVEL</b>			
	6630014151593	Analyzer, Blood Chemistry, Piccolo	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.33	EA
	7530002223525	Book, Memorandum, 10.5x8	0.5	Pg
	6530011832863	Container Disposal Hypo Needle & Syringe 6.9 Qt 12S	0.06	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	1	EA
	6630012309964	Holder Blood Collecting Tube Plastic 10S	1	EA
	6515004312890	Lancet Finger Bleeding 1.5in Blade 100S	1	EA
	6515010032368	Needle Hypo Bld Coll 20ga x1.50in 1000S	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100	1	EA
	7510001743205	Pencil Red Glazed Extr-Thick 6in 12S	1	EA
	6640010887108	Pipette Transfer 1.5ml Capacity 4in Lg Disp 500	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	1	MI
	6640002998490	Rack, Test Tube, Laboratory, 10	1	EA
	6550014866146	Reagent Rotor Piccolo Gen Chem. 12 Test 10S	1	EA
	4110001156027	Refrigerator Mechanical Biologicals 115v	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6510007822700	Sponge Surg12-Ply Gauze 2x2in Sterile 200S	1	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6630011081444	Tube Blood Collecting 5ml Green w/Lith 100S	1	EA
<b>608</b>	<b>SGOT LEVEL</b>			
	6630014151593	Analyzer, Blood Chemistry, Piccolo	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	7110001941611	Chair Rotary W/Footrest Spider Footing	1	EA
	6530011832863	Container Dispose Hypo Ndl & Syr 6.9qt 12S	0.06	EA
	7540001818344	Form Printed Lab Miscellaneous 6x4in 100S	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	6630012309964	Holder Blood Collecting Tube Plastic 10S	1	EA
	6515004312890	Lancet Finger Bleeding 1.5in Blade 100S	1	EA
	6515010032368	Needle Hypo Bld Coll 20gax1.50in 1000S	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100S	1	EA
	7510001743205	Pencil Red Glazed Extra-Thick 6in 12S	1	EA
	6640010887108	Pipette Transfer 1.5ml Capacity 4in Lg Disp 500S	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	1	ML
	6130010701500	Power Supply 115 Volt 50/60 Hz	1	EA
	6640002998490	Rack, Test Tube, Laboratory, 10"4.25"X2.5"	1	EA
	4110001156027	Refrigerator Mechanical Biologicals 115v	1	EA
	6550014866146	Rotor Reagent Gen Chem 12 Test 10S	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6510007822700	Sponge Surg12-Ply Gauze 2x2in Sterile 200S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6630011081444	Tube Blood Collecting 5ml Green w/Lith 100S	1	EA
	6515013851697	Tube Drainage Surg Penrose 7/8x12in 200S	1	EA

Task	NSN	Nomenclature	Amt	UM
<b>612</b>		<b>COMPLETE BLOOD COUNT (CBC)</b>		
	6630012346794	Analyzer, Centrifugal, Hematology, 120/220v	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	6630012337594	Capillary Centrifugal Hematology Tu, 100S	1	EA
	7110001941611	Chair Rotary W/Footrest Spider Footing	1	EA
	6530011832863	Container Dispose Hypo Ndl & Syr 6.9qt 12S	0.05	EA
	6640004188010	Counter Blood Cells Differential	1	EA
	7540001818354	Form Printed Lab Hematology 6.25x4in 100S	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	6630004277000	Hemacytometer Set Complete W/ Case 9S	1	EA
	6630012309964	Holder Blood Collecting Tube Plastic 10S	0.1	EA
	6515004312890	Lancet Finger Bleeding 1.5in Blade 100S	1	EA
	6650012070829	Microscope, Optical, Binocular, 120/230volt	1	EA
	6515010032368	Needle Hypo Bld Coll 20gax1.50in 1000S	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6510007863736	Pad Prep Isopropyl Alcohol Impreg 1x2.5in 100S	1	EA
	6640004365000	Paper Lens Sheet 11x7.5in 5.5lb Ream 500S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	1	EA
	7510001743205	Pencil Red Glazed Extr-Thick 6in 12S	1	EA
	6630011917238	Pipette Diluent Blood Lab Disp RBC 200S	1	EA
	6630001267503	Pipette-Diluent Blood Lab Plas .02ml 200S	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	1	ML
	6650009354247	Shield Optical Microscope Collapsible Vinyl	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6510007822700	Sponge Surg12-Ply Gauze 2x2in Sterile 200S	2	EA
	7510002729662	Staples Paper Fastening Office Type 5000S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6630001451137	Tube Blood Collecting 7ml Red 100S	1	EA
	6515013851697	Tube Drainage Surg Penrose 7/8x12in 200S	1	EA
	6630012337592	Tube Venous Centrifugal Hematology 100S	1	EA
<b>619</b>		<b>SPINAL FLUID CELL COUNT &amp; DIFFERENTIAL</b>		
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	6640009821290	Beaker Lab110/114mm 400ml Plastic	1	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	6640014825490	Centrifuge Laboratory Trunnion 120v 50/60hz	1	EA
	7110001941611	Chair Rotary W/Footrest Spider Footing	1	EA
	6640004188010	Counter Blood Cells Differential	1	EA
	6515003343800	Forceps Hemo Kelly 5.25-5.75" Lg Slight Curve	1	EA
	7540001818344	Form Printed Lab Miscellaneous 6x4in 100S	1	EA
	6640008897023	Funnel Common Lab Plastic 100mm	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	6630004277000	Hemacytometer Set Complete W/ Case 9S	1	EA
	6640002999807	Immersion Oil Microscopy 1 Oz (29.6ml)	0.2	ML
	6650012070829	Microscope, Optical, Binocular, 120/230volt	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6640004029250	Pan Biological Staining Rectangle 25x15cm	1	EA
	6640004365000	Paper Lens Sheet 11x7.5in 5.5lb Ream 500S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	1	EA
	6630011917238	Pipette Diluent Blood Lab Disp RBC 200S	1	EA
	6630001267503	Pipette-Diluent Blood Lab Plas .02ml 200S	1	EA
	4110001156027	Refrigerator Mechanical Biologicals 115v	1	EA
	6640014824743	Rotor Centrifuge Plas Swinging Bucket 6head	1	EA
	6650009354247	Shield Optical Microscope Collapsible Vinyl	1	EA
	6515014828703	Shield Tube Steel Holds Tube to Trunnion 2S	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6640000744191	Slide, Microscope, Plain, Glass 25x75mm 72S	1	EA
	7520002815895	Stapler Paper Fastening Office Desk Gray	1	EA

<b>Task</b>	<b>NSN</b>	<b>Nomenclature</b>	<b>Amt</b>	<b>UM</b>
	7510002729662	Staples Paper Fastening Office Type 5000S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6550013625327	Wright Geisha Staining Kit Conduct 1000 Tests	0.28	ML
<b>620</b>	<b>URINALYSIS W/SPECIFIC GRAVITY</b>			
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	6640014825490	Centrifuge Laboratory Trunnion 120v 50/60hz	1	EA
	7110001941611	Chair Rotary W/Footrest Spider Footing	1	EA
	7540001818355	Form Printed Lab Urinalysis 6.25x4in 100S	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6640004361500	Paper Filter Quality Coarse/Gelatin 380mm	0.5	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	1	EA
	6650009333218	Refractomet, Hand Immersion Ty, Alum, 3 scale	1	EA
	6640014824743	Rotor Centrifuge Plas Swinging Bucket 6head	1	EA
	7510002050842	Rubber Bands Sz #33 1/4 Lb.	0.001	LB
	6515014828703	Shield Tube Steel Holds Tube to Trunnion 2S	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6530000756636	Specimen Kit Urine 500S	1	EA
	7520002815895	Stapler Paper Fastening Office Desk Gray	1	EA
	7510002729662	Staples Paper Fastening Office Type 5000S	2	EA
	6550001464875	Sulfosal Acid Dihydrate Reagent 4oz Bt	0.2	OZ
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
	6550011225540	Test Strip/Color Urine Chemistry 100S	1	EA
<b>621</b>	<b>MICROSCOPIC URINALYSIS</b>			
	6515012346838	Applicator Disp Squared off Tip 100S	1	EA
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	6640014825490	Centrifuge Laboratory Trunnion 120v 50/60hz	1	EA
	7110001941611	Chair Rotary w/Footrest Spider Footing	1	EA
	6640006180066	Cover Glass Microscope Slide 22mm 1 Oz 150S	1	EA
	7540001818355	Form Printed Lab Urinalysis 6.25x4in 100S	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	6650012070829	Microscope, Optical, Binocular, 120/230volt	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6640004361500	Paper Filter Quality Coarse/Gelatin 380mm	0.5	EA
	6640004365000	Paper Lens Sheet 11x7.5in 5.5lb Ream 500S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	1	EA
	6640014824743	Rotor Centrifuge Plas Swinging Bucket 6head	1	EA
	7510002050842	Rubber Bands Sz #33 1/4 Lb.	0.001	LB
	6650009354247	Shield Optical Microscope Collapsible Vinyl	1	EA
	6515014828703	Shield Tube Steel Holds Tube to Trunnion 2S	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6640000744191	Slide, Microscope, Plain, Glass 25x75mm 72S	1	EA
	6530000756636	Specimen Kit Urine 500S	1	EA
	7520002815895	Stapler Paper Fastening Office Desk Gray	1	EA
	7510002729662	Staples Paper Fastening Office Type 5000S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
<b>633</b>	<b>GRAM STAIN</b>			
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.05	EA
	7530002223525	Book, Memorandum, 10.5x8", Ruled, 192 pages	0.25	PG
	7110001941611	Chair Rotary W/Footrest Spider Footing	1	EA
	6515003343800	Forceps Hemo Kelly 5.25-5.75" Lg Slight Curve	1	EA
	7540001818344	Form Printed Lab Miscellaneous 6x4in 100S	1	EA
	6515011502977	Gloves Patient Exam/Treat Lge 100S	2	EA
	6640002999807	Immersion Oil Microscopy 1 Oz (29.6ml)	0.2	ML



Task	NSN	Nomenclature	Amt	UM
	6550002619053	Kit Gram Staining	0.15	EA
	6650012070829	Microscope, Optical, Binocular, 120/230volt	1	EA
	5975011624448	Outlet Box, 6lb, 6 Place, 120/230 V, 50/60hz	1	EA
	6640004365000	Paper Lens Sheet 11x7.5in 5.5lb Ream 500S	1	EA
	7520009357136	Pen Ball-Point Retractable Med Pt Black	1	EA
	6650009354247	Shield Optical Microscope Collapsible Vinyl	1	EA
	6530014296715	Sink Unit Surg Scrub & Utensil Hospital Field	1	EA
	6640000744191	Slide, Microscope, Plain, Glass 25x75mm 72S	1	EA
	7520002815895	Stapler Paper Fastening Office Desk Gray	1	EA
	7510002729662	Staples Paper Fastening Office Type 5000S	2	EA
	7105007100210	Table Folding Legs Lab 72x20x30in	1	EA
<b>676</b>	<b>CHEST XRAY AP/PA</b>			
	6532009359765	Apron X-Ray Protective Coat 38x24in Lt Wt	1	EA
	6525006031310	Grid Radiograph 14x7in Linear Focused Type	1	EA
	6525011669033	Screen X-Ray Protective Mobile 6ft High	1	EA
	6525014802199	X-Ray System Radiological Filmless Digital	1	EA
<b>677</b>	<b>CHEST XRAY LATERAL</b>			
	6532009359765	Apron X-Ray Protective Coat 38x24in Lt Wt	1	EA
	6525006031310	Grid Radiograph 14x7in Linear Focused Type	1	EA
	6525006080620	Marker Set X-Ray Film Iden Gothic Letter	1	EA
	6525011669033	Screen X-Ray Protective Mobile 6ft High	1	EA
	6525014802199	X-Ray System Radiological Filmless Digital	1	EA
<b>748</b>	<b>ASSEMBLE MATERIAL/CLEAN UP</b>			
	6530011075798	Bag Sterilization-Biohaz Disp 36x24in 200S	0.35	EA
	6530014588301	Basin 7qt Sterilizable Plas Fits Stand 12S	1	EA
	7920011263250	Cloth Cleaning White 15x12" 900S	2	EA
	6530011832863	Container Dispose Hypo Ndl & Syr 6.9qt 12S	0.1	EA
	6640011079169	Detergent Glassware & Instruments Alconox 4lb	0.5	OZ
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	2	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	1	EA
	7240014643773	Pail Utility Plastic 12qt Capacity 6S	1	EA
<b>802</b>	<b>INITIAL/SUBSEQUENT NON-SURGE DEBRIDE OF BURN OR OPEN WOUND<sup>1</sup></b>			
	6530014588301	Basin 7qt Sterilizable Plas Fits Stand 12S	1	EA
	6530007710105	Basin Wash Corrosion Resisting Steel 7qt	1	EA
	6515006600011	Blade Surgical Knife Detachable #10 6S	0.5	EA
	6515010095293	Blade Surgical Knife Detachable #15 150S	0.5	EA
	6530013643353	Brush-Sponge Surg Scrub Nonster 3% Pcmx 300S	1	EA
	6515013648554	Glove Patient Exam/Treat Lge Prepwrdr 100S	2	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwrdr 100S	2	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	1	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	1	PR
	6515003447800	Handle Surg Knife Blade Sz 3 Narrow Nose	1	EA
	6515007822621	Mask Surgical Nonwoven Fabric Disp 50S	1	EA
	6505004917557	Povidone-Iodine Cleansing Sol 7.5% 118ml	3	ML
	6505014624194	Sodium Chloride Irrigation 0.9% 1000ml Bt 12S	1	BT
	6510007219808	Sponge Surg Cotton Gauze 4x4in Sterile 1200S	4	EA
	6530005518681	Stand Surgical Instrument Adj Field Olive	1	EA
	6515014570288	Syringe Irrigating 60ml Luer Plas Disp 120S	1	EA
	6530007939570	Tray Instrument Steel 19x12x.75in	1	EA
<b>Z014</b>	<b>ESTABLISH AND ENSURE ADEQUATE AIRWAY — INTUBATION<sup>1</sup></b>			
	6135008264798	Battery Nonrechargeable 1.5v AAA 24S	0.2	EA

<sup>1</sup> Required *supplies* may vary depending on NBC patient type.<sup>2</sup> Required *quantities* vary depending on NBC patient type.

<b>Task</b>	<b>NSN</b>	<b>Nomenclature</b>	<b>Amt</b>	<b>UM</b>
	6515013648554	Glove Patient Exam/Treat Lge Prepwr 100S	2	EA
	6515013648553	Glove Patient Exam/Treat Med Prepwr 100S	2	EA
	6515011498841	Gloves Surg Gen Surg Sz 7.5 Pwdr-Free 50pr	1	PR
	6515011498842	Gloves Surg Gen Surg Sz 8 Rubber 50pr	1	PR
	6515014509790	Laryngoscope Set Softcase W/Light Blades	1	EA
	6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30ml	1	ML
	6515013948327	Stylet Tracheal Tube 7.5-10mm Plas Disp 10S	0.25	EA
	6515007540412	Syringe Hypo Gp 10ml Cap Luer Slip 100S	1	EA
	6510009268882	Tape Adhesive Surg Woven 1inx12yd 12S	0.15	RL
	6515010369034	Tube Endotracheal Murphy 7.5mm 10S	0.5	EA
	6515001050759	Tube Endotracheal Murphy 8.0mm OD 10S	0.5	EA
<b>Z030</b>	<b>ELECTRONIC MONITORING OF VITAL SIGNS: PROPAQ</b>			
	6515011535752	Electrode Ekg Pregelled 4.4cm Dia 25S	3	EA
	6515014322711	Monitor Patient Vital Signs W/Co2	1	EA
<b>Z277</b>	<b>PREPARE FOR EVAC GROUND/AIR — LITTER/STRAPS</b>			
	XXXXXXXXX25	No Supplies Assigned This Task	0	XX

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The growing threat posed by the possible use of biological and chemical agents by terrorists or renegade nations increases the need for Marine Corps and Navy health care providers to be prepared to treat victims of biochemical agents on the battlefield. This study reviewed Marine Corps medical supply blocks for biological and chemical warfare casualties — Authorized Medical Allowance Lists (AMALs) 687 and 688. Treatment profiles were created for 42 biochemical patient types using the Joint Readiness Clinical Advisory Board treatment briefs as a guide. Those treatment profiles were then assigned medical supplies, establishing the clinical requirements for the proposed AMAL updates. In November 2002, a panel of 30 subject matter experts was convened to review and validate the recommended changes. As a result of this review, three new items were added to AMAL 687, the NBC Individual Kit, and one item deleted. Four items were removed from the existing NBC Unit AMAL 688, and 17 new items were added. Included among the items added to both AMALs were new antibiotics to combat the threat of bacterial-based biological agents, such as anthrax and plague.

**15. SUBJECT TERMS**

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